Ascend Performance Materials Vydyne® R860 BK02 Nylon 66, Glass/Mineral Reinforced, DAM

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, Glass/Mineral Reinforced

Material Notes:

Vydyne® R860 BK02 is general-purpose, glass-fiber and mineral-reinforced PA66 resin. Available in black, this product is also lubricated for improved flow and offers superior surface appearance. Glass fiber and mineral-reinforced Vydyne resins provide higher heat distortion temperature, resistance to creep and better dimensional stability when compared with unreinforced PA66. These products have good chemical resistance to creep and better dimensional stability when compared with unreinforced PA66. These products have good chemical resistance to a broad range of chemicals including gasoline, hydraulic fluids and most solvents. Typical Applications/End Uses: Vydyne R860 BK02 can be successfully used in a wide range of injection-molding engineering applications. Typical parts include automotive clips, radiator shrouds, fans and mirror brackets; electrical connectors, housings and bobbins; and industrial applications such as gears, bearing shells, covers and housings. Availability:Asia PacificEuropeNorth AmericaFiller/Reinforcement:Glass FiberMineral Additive:Lubricant Features: Good Mold Releasehigh RigidityHigh Strength High Tensile Strength LubricatedOutstanding Surface Finish Uses:Automotive Under the HoodGearsHousingsLawn and Garden EquipmentMetal ReplacementPower/Other ToolsAppearance: Natural ColorForms: PelletsProcessing Method: Injection MoldingInformation provided by Ascend Performance Materials.

Order this product through the following link:
http://www.lookpolymers.com/polymer_Ascend-Performance-Materials-Vydyne-R860-BK02-Nylon-66-GlassMineral-Reinforced-DAM.php

Physical Properties	Metric	English	Comments
Density	1.47 g/cc	0.0531 lb/in³	ISO 1183
Water Absorption	0.60 % @Time 86400 sec	0.60 % @Time 24.0 hour	ISO 62
Moisture Absorption at Equilibrium	2.0 %	2.0 %	50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0025 cm/cm @Diameter 2.00 mm	0.0025 in/in @Diameter 0.0787 in	ISO 294-4
Linear Mold Shrinkage, Transverse	0.0080 cm/cm @Diameter 2.00 mm	0.0080 in/in @Diameter 0.0787 in	ISO 294-4

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	120 MPa	17400 psi	ISO 527-2
Elongation at Break	2.5 %	2.5 %	ISO 527-2
Tensile Modulus	10.0 GPa	1450 ksi	ISO 527-2
Flexural Strength	190 MPa	27600 psi	ISO 178
Flexural Modulus	9.00 GPa	1310 ksi	ISO 178

Mechanical Properties	Metric	English	Comments
Poissons Ratio	0.40	0.40	ISO 527-2
Izod Impact, Notched (ISO)	4.60 kJ/m² @Temperature -30.0 °C	2.19 ft-lb/in² @Temperature -22.0 °F	ISO 180
	5.60 kJ/m² @Temperature 23.0 °C	2.66 ft-lb/in² @Temperature 73.4 °F	ISO 180
Charpy Impact Unnotched	4.30 J/cm² @Temperature -30.0 °C	20.5 ft-lb/in² @Temperature -22.0 °F	ISO 179
	4.80 J/cm² @Temperature 23.0 °C	22.8 ft-lb/in² @Temperature 73.4 °F	ISO 179
Charpy Impact, Notched	0.380 J/cm² @Temperature -30.0 °C	1.81 ft-lb/in² @Temperature -22.0 °F	ISO 179
	0.440 J/cm² @Temperature 23.0 °C	2.09 ft-lb/in² @Temperature 73.4 °F	ISO 179

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	24.0 µm/m-°C @Thickness 2.00 mm, Temperature 23.0 - 55.0 °C	13.3 µin/in-°F @Thickness 0.0787 in, Temperature 73.4 - 131 °F	ISO 11359-2
CTE, linear, Transverse to Flow	69.0 µm/m-°C @Thickness 2.00 mm, Temperature 23.0 - 55.0 °C	38.3 µin/in-°F @Thickness 0.0787 in, Temperature 73.4 - 131 °F	ISO 11359-2
Melting Point	255 °C	491 °F	ISO 11357-3
Deflection Temperature at 0.46 MPa (66 psi)	230 °C	446 °F	Unannealed; ISO 75-2/B
Deflection Temperature at 1.8 MPa (264 psi)	215 °C	419 °F	Unannealed; ISO 75-2/A

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	280 - 310 °C	536 - 590 °F	
Middle Barrel Temperature	280 - 310 °C	536 - 590 °F	
Front Barrel Temperature	280 - 310 °C	536 - 590 °F	
Nozzle Temperature	280 - 310 °C	536 - 590 °F	
Melt Temperature	285 - 305 °C	545 - 581 °F	

Processing Properties	Metric	English	Comments
Mold Temperature	85.0 - 95.0 °C	185 - 203 °F	
Drying Temperature	80.0 °C	176 °F	
Dry Time	4.00 hour	4.00 hour	

Descriptive Properties	Value	Comments
Suggested Max Regrind	25 %	

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